



#55, HOOVER 9/20/01

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List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.  
10830.0072.NPUS00Serial No.  
09/823,024Applicant  
Raymond Mantchala, et al.Filing Date:  
March 30, 2001Group:  
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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
cep	A1	5,959,690	09/28/1999	Toebes, VIII et al.	348	578	02/19/1997
1	A2	5,892,915	04/06/1999	Duso et al.	395	200.49	05/05/1997
	A3	5,859,660	01/12/1999	Perkins et al.	348	9	02/29/1996
	A4	5,838,678	11/17/1998	Davis et al.	370	389	07/24/1996
	A5	5,675,384	10/07/1997	Ramamurthy et al.	348	405	10/03/1995
	A6	5,534,944	07/09/1996	Egawa et al.	348	584	07/21/1995
	A7	5,231,484	07/27/1993	Gonzales et al.	358	133	11/08/1991
	A8	5,969,650	10/19/1999	Wilson	341	67	01/16/1998
	A9	5,793,897	08/11/1998	Jo et al.	382	246	12/16/1994
	A10	5,694,170	12/02/1997	Tiwari et al.	348	390	04/06/1995
	A11	5,565,998	10/15/1996	Coombs et al.	386	46	02/22/1994
cep	A12	5,381,144	01/10/1995	Wilson et al.	341	63	10/25/1993

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
cep	C1	Y. Nakajima, H. Hori, and T. Kanoh, "Rate Conversion of MPEG Coded Video by Re-quantization Process," IEEE Proc. of ICIP-95, vol. III, Sept. 1995, pp. 408-411
cep	C2	A.T. Erdem and M.I. Sezan, "Multi-generation Characteristics of the MPEG Video Compression Standards," IEEE Proc. of ICIP-94, vol. II, 1994, pp. 933-937
cep	C3	M. Perreira, and A. Lippman, "Re-codable video," IEEE Proc. of ICIP-94, vol. II, 1994, Pp. 952-956

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Exam. Init.	Ref. Des.	Citation
cef	C35	MPEG Wizard: MPEG Real-Time External Encoder, <a href="http://www.duplexx.com/mpgwiz.html">http://www.duplexx.com/mpgwiz.html</a> , MPEG Wizard: MPEG Real-Time Encoder – Features and Software, <a href="http://www.duplexx.com/mpgwiz_f.html">http://www.duplexx.com/mpgwiz_f.html</a> , MPEG Wizard: MPEG Real-Time Encoder – Specs & Requirements, <a href="http://www.duplexx.com/mpgwiz_r.html">http://www.duplexx.com/mpgwiz_r.html</a> , published at least as early as 3/19/01, 4 pages
	C36	Optivision MPEG-1 Encoder, <a href="http://brahma.imag.fr/Multimedia/jeudis/jeudi2/Optivision_mpeg1enc.html">http://brahma.imag.fr/Multimedia/jeudis/jeudi2/Optivision_mpeg1enc.html</a> , published at least as early as 3/19/01, 3 pages
	C37	Adrienne Electronics Corporation – Home Page, <a href="http://www.adrielec.com/">http://www.adrielec.com/</a> , 1 page; Functional Grouping of LTC/VITC, VTR Interface, and Video Products, <a href="http://www.adrielec.com/listing.htm">http://www.adrielec.com/listing.htm</a> , 2 pages; Adrienne Electronics Products and Price Listings Catalog, <a href="http://www.adrielec.com/shortfor.htm">http://www.adrielec.com/shortfor.htm</a> , 8 pages; AEC-BOX-8/18/28 Standalone VITC and/or LTC Time Code Generator, <a href="http://www.adrielec.com/box28lit.htm">http://www.adrielec.com/box28lit.htm</a> , 4 pages; AEC-BOX-8/18/28 Standalone LTC/VITC Time Code Reader, <a href="http://www.adrielec.com/box20lit.htm">http://www.adrielec.com/box20lit.htm</a> , 5 pages, published at least as early as 3/15/01
	C38	National P/N CLC020 – SMPTE 259M Digital Video Serializer with Integrated Cable Driver, <a href="http://www.national.com/pf/CL/CLC020.html">http://www.national.com/pf/CL/CLC020.html</a> , published at least as early as 3/14/01, 3 pages
	C39	TE600 MPEG-2 DSN Encoder, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, <a href="http://www.usacanada.net/satellite/te600.htm">http://www.usacanada.net/satellite/te600.htm</a> , published at least as early as 3/14/01, 3 pages
	C40	TDR600/RA, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, <a href="http://www.usacanada.net/satellite/tdr600-ra.htm">http://www.usacanada.net/satellite/tdr600-ra.htm</a> , published at least as early as 3/14/01, 2 pages
	C41	TE300A MPEG-2 Encoder, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, <a href="http://www.usacanada.net/satellite/te300a.htm">http://www.usacanada.net/satellite/te300a.htm</a> , published at least as early as 3/14/01, 3 pages
cef	C42	TE-30, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, <a href="http://www.usacanada.net/satellite/te30.htm">http://www.usacanada.net/satellite/te30.htm</a> , published at least as early as 3/14/01, 3 pages

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Other Art

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
cup	C27	B. Shen and I.K. Sethi, <u>Convolution-Based Edge Detection for Image/Video in Block DCT Domain</u> , Vision & Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>To appear in Journal of Visual Communications and Image Representation</i> , 19 pages
	C28	Bo Shen and Ishwar K. Sethi, <u>Direct feature extraction from compressed images</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>SPIE vol. 2670, Storage &amp; Retrieval for Image and Video Databases IV, 1996</i> , 12 pages
	C29	Bo Shen and Ishwar K. Sethi, <u>Block-Based Manipulations On Transform-Compressed Images and Videos</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>To appear in Multimedia Systems</i> , 26 pages
	C30	Bo Shen and Ishwar K. Sethi, <u>Inner-Block Operations On Compressed Images</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>ACM Multimedia '95, San Francisco, CA, Nov. 5-9, 1995</i> , 10 pages
	C31	Alexandros Eleftheriadis and Dimitris Anastassiou, <u>Constrained and General Dynamic Rate Shaping of Compressed Digital Video</u> , Dept. of Electrical Engineering and Center for Telecommunications Research, Columbia University, New York, NY, <i>Proceedings, 2<sup>nd</sup> IEEE International Conference on Image Processing (ICIP-95), Arlington, VA, October 1995</i> , 4 pages
	C32	Alexandros Eleftheriadis and Dimitris Anastassiou, <u>Optimal Data Partitioning of MPEG-2 Coded Video</u> , Dept. of Electrical Engineering and Center for Telecommunications Research, Columbia University, New York, NY, <i>Proceedings, 1<sup>st</sup> International Conference on Image Processing (ICIP-94), Austin, Texas, November 1994</i> , 5 pages
	C33	Andrew B. Watson, Joshua A. Solomon, Albert Ahumada, and Alan Gale, <u>DCT Basis Function Visibility: Effects of Viewing Distance and Contrast Masking</u> , (1994), 11 pages, in B.E. Rogowitz (Ed.), <i>Human Vision, Visual Processing and Digital Display IV</i> (pp.99-108), Billington, WA, SPIE
cup	C34	O'Reilly Network Broadcast 2000 Brings DV Editing to Linux (Aug. 11, 2000), <a href="http://www.oreillynet.com/pub/a/network/2000/08/11/magazine/broadcast2000.html">http://www.oreillynet.com/pub/a/network/2000/08/11/magazine/broadcast2000.html</a> , published at least as early as 3/27/01, 3 pages; Broadcast 2000, <a href="http://heroinewarrior.com/bcast2000.php3">http://heroinewarrior.com/bcast2000.php3</a> , published at least as early as 3/27/01, 4 pages

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

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cep	C16	Barry G. Haskell, Atul Puri, and Arun N. Netravali, <u>MPEG-2 Video Coding and Compression</u> , Chp. 8, pp. 156-182, and "Interactive Television," Chp. 13, pp. 292-306, <u>DIGITAL VIDEO: AN INTRODUCTION TO MPEG-2</u> , Chapman & Hall, New York, NY, 1997
	C17	"MPEG-2: The basics of how it works," Hewlett Packard, published at least as early as Oct. 31, 1999, 17 pages
	C18	Anil K. Jain, <u>Fundamentals of Digital Image Processing</u> , Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1989, Chapter 4: Image Sampling and Quantization and Chapter 5: Image Transforms, pp. 80-188
	C19	"Information technology—Generic coding of moving pictures and associated audio information: Systems," International Standard, ISO/IEC 13818-1:1996(E), 136 pages
	C20	"Information technology—Generic coding of moving pictures and associated audio information: Video," International Standard, ISO/IEC 13818-2:1996(E), 211 pages
	C21	"Information technology—Generic coding of moving pictures and associated audio information—Part 3: Audio," International Standard, ISO/IEC 13818-3:1995(E), 118 pages
	C22	Jerry D. Gibson, Toby Berger, Tom Lookabaugh, Dave Lindbergh, and Richard L. Baker, <u>Digital Compression for Multimedia: Principles and Standards</u> , Morgan Kaufmann Publishers, Inc., San Francisco, CA, 1998, Chapter 9: JPEG Still-Image Compression Standard, pp. 291-308, and Chapter 11: MPEG Compression, pp. 363-417
	C23	Barry G. Haskell, Atul Puri, and Arun N. Netravali, <u>Digital Video: An Introduction to MPEG-2</u> , Chapman & Hall, New York, NY, 1997, pp. 1-279, 292-306, 369-421
	C24	Nilesh V. Patel and Ishwar K. Sethi, <u>Compressed Video Processing For Cut Detection</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, October 1997, 26 pages
	C25	Nilesh V. Patel and Ishwar K. Sethi, <u>Video Shot Detection and Characterization for Video Databases</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, October 1997, 22 pages
cep	C26	Bo Shen, Ishwar K. Sethi and Vasudev Bhaskaran, <u>DCT Convolution and Its Application In Compressed Video Editing</u> , Dept. of Computer Science, Wayne State University, Detroit, MI and Visual Computing Dept., Hewlett-Packard Laboratories, Palo Alto, CA, <i>To appear in SPIE VCDIP '97, also submitted to IEEE Trans. Cir. And Sys. For Video Tech.</i> , 11 pages

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>Cyf</i>	C4	M. Mohsenian, R. Rajagopalan, and C.A. Gonzales, "Single-pass constant- and variable-bit-rate MPEG-2 video compression," IBM J. Res. Develop., vol. 43, no. 4, July 1999, pp. 489-509
	C5	P.H. Westerink, R. Rajagopalan, and C.A. Gonzales, "Two-pass MPEG-2 variable-bit-rate encoding," IBM J. Res. Develop., vol. 43, no. 4, July 1999, pp. 471-488
	C6	Jill Boyce, John Henderson, and Larry Pearlstein, "An SDTV Decoder with HDTV Capability: An All-Format ATV Decoder," Hitachi America Ltd., <a href="file:///C:/Fatima/67.gif">file:///C:/Fatima/67.gif</a> , pp. 67-75, published at least as early as 1/12/00
	C7	Boon-Lock Yeo, "On fast microscopic browsing of MPEG-compressed video," IBM T.J. Watson Research Center, Jan. 1998, Multimedia Systems 7, 1999, pp. 269-281
	C8	Robert Mokry and Dimitris Anastassiou, "Minimal Error Drift in Frequency Scalability for Motion-Compensated DCT Coding," IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol. 4, no. 4, Aug. 1994, pp. 392-406
	C9	C. Ward, C. Pecota, X. Lee, and G. Hughes, "Seamless Splicing for MPEG-2 Transport Stream Video Servers," SMPTE JOURNAL, December 1999, pp. 873-879
	C10	Norm Hurst and Katie Cornog, "MPEG Splicing: A New Standard for Television—SMPTE 312M," SMPTE JOURNAL, November 1998, pp. 978-988
	C11	Norm Hurst and Katie Cornog, "Splicing FAQ," <a href="http://www.mpeg.org/MPEG/splicing-FAW.html">http://www.mpeg.org/MPEG/splicing-FAW.html</a> , 8 pages, published at least as early as 10/13/99
	C12	SMPTE 312M-1999, SMPTE Standard for Television, "Splice Points for MPEG-2 Transport Streams," Approved April 8, 1999, THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS, White Plains, NY, 20 pages
	C13	"The Shape of MPEG," DV Magazine, vol. 4, no. 12, December 1996, <a href="http://livedv.com/Mag/Dec96/Contents/mpeg/mpeg.html">http://livedv.com/Mag/Dec96/Contents/mpeg/mpeg.html</a> , 5 pages, published at least as early as 10/13/99
	C14	"A Guide to MPEG Fundamentals and Protocol Analysis (Including DVB and ATSC)," Tektronix, Inc., Beaverton, Oregon, 1997, pp. 48 pages
<i>Cyf</i>	C15	Leonardo Chiariglione, "MPEG and multimedia communications," CSELT, Torino Italy, <a href="http://www.csel.it/stet.it/ufv/leonardo/paper/isce96.htm">http://www.csel.it/stet.it/ufv/leonardo/paper/isce96.htm</a> , 50 pages, published at least as early as 10/13/99

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